

ALIGNMENTS

SEQ ID #9

RESULT 11
US-08-321-071A-16
; Sequence 16, Application US/08321071A
; Patent No. 5672686
; GENERAL INFORMATION:
; APPLICANT: CHITTENDEN, Thomas D.
; TITLE OF INVENTION: APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hale and Dorr
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/321,071A
; FILING DATE: 11-OCT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10103
; FILING DATE: 09-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/287,427
; FILING DATE: 09-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: WIXON, HENRY N.
; REGISTRATION NUMBER: 32,073
; REFERENCE/DOCKET NUMBER: 104322.121CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-942-8400
; TELEFAX: 202-942-8484
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 211 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-321-071A-16

Query Match 97.3%; Score 1070; DB 1; Length 211;
Best Local Similarity 96.7%; Pred. No. 8.7e-113;
Matches 204; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

```
QY 1 MASGQGPGRPRQECGEPALPSASEEQVAQDTEEVFRSYVFYHHQQEAEAGAAPADPEM 60
   |||
Db 1 MASGQGPGRPRQECGEPALPSASEEQVAQDTEEVFRSYVFYRHQQEAEAGVAAPADPEM 60
   |||

QY 61 VTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLOHLOPTAENAYEYFTKIASSLFE 120
   |||
Db 61 VTLPLQPSSTMGQVGRQLAIIGDDINRRYDSEFQTMLOHLOPTAENAYEYFTKIATSLFE 120
   |||

QY 121 SGINWGRVVALLGFSYRLALHIYQRLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 180
   |||
Db 121 SGIDWGRVVALLGFGYRLALHVYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 180
   |||

QY 181 LNLGNPILNVLVVLGVVLLGQFVVRFFKS 211
   |||
Db 181 LNLGNPILNVLVVLGVVLLGQFVVRFFKS 211
   |||
```

```

RESULT 4
US-08-321-071A-16
; Sequence 16, Application US/08321071A
; Patent No. 5672686
; GENERAL INFORMATION:
; APPLICANT: CHITTENDEN, Thomas D.
; TITLE OF INVENTION: APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hale and Dorr
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
;
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/321,071A
; FILING DATE: 11-OCT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10103
; FILING DATE: 09-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/287,427
; FILING DATE: 09-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: WIXON, HENRY N.
; REGISTRATION NUMBER: 32,073
; REFERENCE/DOCKET NUMBER: 104322.121CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-942-8400
; TELEFAX: 202-942-8484
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 211 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-321-071A-16

```

Query Match 33.2%; Score 161.5; DB 1; Length 211;
Best Local Similarity 51.3%; Pred. NO. 2.3e-11;
Matches 39; Conservative 6; Mismatches 28; Indels 3; Gaps 2;

```
QY      1 MASGQGPGPPRQECEKPALPSASEEQVAQDMEGFSAAFTTTISRNRRLKG - RPPLPTQ 58.  
       ||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||  
Db      1 MASGQGPGPPRQECEGPALPSASEEQVAQDTEEVFRSYVPYRHQQEAEGVAAPDPQM 60  
  
QY     59 RWSPC-PSNLAAPWGR 73  
       |   ||:  
Db     61 VTLPQPSSMTMGQVGR 76
```

SEQ ID #22

```
RESULT 7
US-08-321-071A-16
; Sequence 16, Application US/08321071A
; Patent No. 5672686
; GENERAL INFORMATION:
;
; APPLICANT: CHITTENDEN, Thomas D.
; TITLE OF INVENTION: APOPTOSIS RELATED PROTEIN Bcl-Y, AND METHODS
; TITLE OF INVENTION: OF USE THEREOF
; NUMBER OF SEQUENCES: 31
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hale and Dorr
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
; STATE: D.C.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/321,071A
; FILING DATE: 11-OCT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/10103
; FILING DATE: 09-AUG-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/287,427
; FILING DATE: 09-AUG-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: WIXON, HENRY N.
; REGISTRATION NUMBER: 32,073
; REFERENCE/DOCKET NUMBER: 104322.121CIP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-942-8400
; TELEFAX: 202-942-8484
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 211 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-321-071A-16

Query Match          98.6%; Score 1083.5; DB 1; Length 211;
Best Local Similarity 99.1%; Pred. No. 1.1e-115;
Matches 209; Conservative 1; Mismatches 0; Indels 1; Gaps 1;

Qy 1 MASGQGPGRPQECGEPALPSASEEQVAQDTEEVFRSYVFYRHQQEQEAEGVAAAPADPEM 60
   |||
Db 1 MASGQGPGRPQECGEPALPSASEEQVAQDTEEVFRSYVFYRHQQEQEAEGVAAAPADPEM 60

Qy 61 VTLPQPSTMGQVGRQLAIIGDDINRRYDSEFQTMQLQHLQPTAENAYEYFTKIATSLFE 120
   |||
Db 61 VTLPQPSTMGQVGRQLAIIGDDINRRYDSEFQTMQLQHLQPTAENAYEYFTKIATSLFE 120

Qy 121 SG-NWGRVVALLGFGYRLALHVIYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 179
   |||
Db 121 SGIDWGRVVALLGFGYRLALHVIYQHGLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAA 180

Qy 180 LNLGNGPILNVLVVLGVVLLGQFVVRFFKS 210
   |||
Db 181 LNLGNGPILNVLVVLGVVLLGQFVVRFFKS 211
```